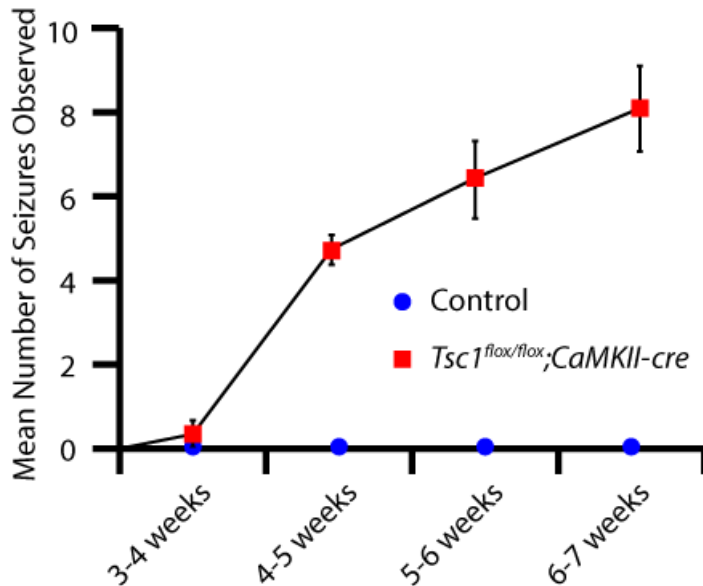


**Supplemental Table 1. Information on mice used for behavioral analysis**

Control (Fig 1)	Tsc1 <sup>flx/flx</sup> ; CaMKII (Fig 1)	Control (Fig 6)	Tsc1 <sup>flx/flx</sup> ; Slc6a4 (Fig 6)	Control (Fig 8)	Tsc1 <sup>flx/flx</sup> ; Slc6a4 (Fig 8)	Tsc1 <sup>flx/flx</sup> ; Slc6a4 + Rapamycin (Fig 8)	Tsc1 <sup>flx/flx</sup> ; Slc6a4 + Fluoxetine (Fig 8)
M - Litter 1	M - Litter 1	M - Litter 5	M - Litter 5	M - Litter 10	M - Litter 10	M - Litter 10	M - Litter 11
M - Litter 2	M - Litter 2	M - Litter 6	M - Litter 6	M - Litter 11	M - Litter 12	M - Litter 13	M - Litter 14
M - Litter 2	M - Litter 3	M - Litter 7	M - Litter 7	M - Litter 12	M - Litter 14	M - Litter 15	M - Litter 16
M - Litter 3	M - Litter 3	M - Litter 8	M - Litter 8	M - Litter 14	M - Litter 16	M - Litter 16	M - Litter 17
M - Litter 3	M - Litter 4	M - Litter 9	M - Litter 9	M - Litter 15	M - Litter 18	M - Litter 18	M - Litter 18
M - Litter 4	M - Litter 4	F - Litter 5	F - Litter 6	M - Litter 16	F - Litter 10	M - Litter 18	F - Litter 11
F - Litter 1	F - Litter 2	F - Litter 6	F - Litter 6	F - Litter 10	F - Litter 11	F - Litter 12	F - Litter 12
F - Litter 2	F - Litter 2	F - Litter 7	F - Litter 7	F - Litter 11	F - Litter 12	F - Litter 13	F - Litter 13
F - Litter 2	F - Litter 3	F - Litter 8	F - Litter 8	F - Litter 13	F - Litter 13	F - Litter 14	F - Litter 15
F - Litter 3	F - Litter 4	F - Litter 10	F - Litter 9	F - Litter 15	F - Litter 15	F - Litter 16	F - Litter 17
F - Litter 4			F - Litter 10			F - Litter 18	

Supplemental Table 1. Litter number and gender of mice used in all behavioral experiments. Male mice are indicated by M and are highlighted in blue, female mice and indicated by an F and are highlighted in red.

**Supplemental Figure 1. Frequency of seizures in Tsc1<sup>flx/flx</sup>;CaMKII $\alpha$ -cre mice**



**Supplemental Figure 1.** Mean number of seizure observed by video recording in a 12 hour session over the time course of 3-7 weeks postnatal. Control mice are shown as blue circle, while Tsc1<sup>flx/flx</sup>;CaMKII $\alpha$ -

*cre* mice are red squares. All  $Tsc1^{flox/flox};CaMKII\alpha\text{-cre}$  mice developed spontaneous seizures by week 5-6.  
N=3